IN THE CLAIMS

Claims 1, 3-4, 10, 14, 17, 20, 22-23, 26, 28-29, and 32 are amended. Claim 33 is added. All pending claims are produced below:

1. (Currently Amended) A computer implemented method for rolling back a system state after a modification failure, the method comprising the steps of:

a rollback manager creating a restore point on a computer;

the rollback manager storing a reboot indicator in non-revertible storage;

the rollback manager monitoring the reboot indicator ~~to detect an unexpected reboot~~ during deployment of a modification, the monitoring comprising:

the rollback manager detecting a reboot of the computer, the reboot having occurred during the deployment of the modification; and

the rollback manager determining based at least in part on the reboot indicator whether the reboot was expected or whether the reboot was unexpected; ~~and~~

responsive at least in part to determining that at least one unexpected reboot occurred during the deployment of the modification, the rollback manager rolling back the system state of the computer according to the restore point; and

responsive at least in part to determining that no unexpected reboot occurred during the deployment of the modification, the rollback manager indicating that the deployment of the modification was successful.

2. (Canceled)

3. (Currently Amended) The method of claim 1 wherein the rollback manager creating a restore point on a computer further comprises:

the rollback manager auditing the computer and storing in non-revertible storage initial audit information ~~concerning~~ identifying at least one item from a group of items consisting of:

at least one currently executing system process;

at least one currently executing user process; and

at least one currently open listening port.

4. (Currently Amended) The method of claim 3, further comprising:

responsive at least in part to determining that no unexpected ~~reboots~~ reboot occurred during the deployment of the modification:

the rollback manager re-auditing the computer and comparing re-audit information to the stored initial audit information; and

the rollback manager performing an appropriate action responsive to results of the comparison.

5. (Original) The method of claim 4 wherein the rollback manager performing an appropriate action responsive to the comparison further comprises:

responsive to the comparison revealing that at least one item from the initial audit is no longer present on the computer, the rollback manager rolling back the system state of the computer according to the restore point.

6. (Original) The method of claim 4 wherein the rollback manager performing an appropriate action responsive to the comparison further comprises:

responsive to the comparison revealing that all items from the initial audit are still present on the computer, the rollback manager deeming the computer stable.

7. (Original) The method of claim 6 wherein the rollback manager deeming the computer stable further comprises:

the rollback manager clearing the reboot indicator.

8. (Original) The method of claim 6 further comprising:

the rollback manager deploying rollback capability on the computer; and

the rollback manager storing, in non-revertible storage, information concerning deployment of the rollback capability on the computer; wherein the rollback manager deeming the computer stable further comprises the rollback manager disabling the deployed rollback capability.

9. (Original) The method of claim 4 further comprising:

the rollback manager waiting for a specified period of time before re-auditing the computer, and comparing re-audit information to the stored audit information.

10. (Currently Amended) The method of claim 4 further comprising:

the rollback manager repeating the following steps a specified number of times at specified intervals:

responsive to determining that no unexpected ~~reboots~~ reboot occurred during the deployment of the modification:

the rollback manager re-auditing the computer and comparing re-audit information to the stored audit information; and

the rollback manager performing an appropriate action responsive to results of the comparison.

11. (Original) The method of claim 1 further comprising:

the rollback manager configuring the reboot indicator to indicate that a modification is to be deployed.

12. (Original) The method of claim 11 further comprising:

the rollback manager configuring the reboot indicator to indicate that the deployment of the modification is expected to reboot the computer.

13. (Original) The method of claim 12 wherein the rollback manager configuring the reboot indicator to indicate that the deployment of the modification is expected to reboot the computer further comprises:

the rollback manager monitoring deployment of the modification; and

the rollback manager configuring the reboot indicator responsive to the deployment requesting a reboot of the computer.

14. (Currently Amended) The method of claim 1 wherein the rollback manager monitoring the reboot indicator to detect an unexpected reboot during deployment of a modification further comprises:

the rollback manager reading the reboot indicator, the reading performed after a reboot of the computer, and the reading performed before a ~~booting~~ loading of an operating system.

15. (Original) The method of claim 14 further comprising:

the rollback manager updating the reboot indicator to indicate the occurrence of the reboot.

16. (Canceled)

17. (Currently Amended) The method of claim 1 wherein the reboot indicator comprises ~~at least one attribute from a group of attributes consisting of:~~

~~an indication of whether a reboot is expected;~~

an indication of a specific number of reboots that are expected[[;]]

and a counter of executed reboots~~; and~~

~~an indication of whether a modification is being deployed~~.

18. (Original) The method of claim 1 further comprising:

the rollback manager deploying rollback capability on the computer; and

the rollback manager storing, in non-revertible storage, information concerning deployment of the rollback capability on the computer.

19. (Previously Presented) The method of claim 18, further comprising:

responsive to the rollback manager rolling back the system state of the computer according to the restore point, the rollback manager disabling the deployed rollback capability.

20. (Currently Amended) A computer readable storage medium containing an executable computer program product for rolling back a system state after a modification failure, the computer program product comprising:

program code for creating a restore point on a computer;

program code for storing a reboot indicator in non-revertible storage;

program code for monitoring the reboot indicator ~~to detect an unexpected reboot~~ during deployment of a modification, the monitoring comprising:

the rollback manager detecting a reboot of the computer, the reboot having occurred during the deployment of the modification; and

the rollback manager determining based at least in part on the reboot indicator whether the reboot was expected or whether the reboot was unexpected; ~~and~~

program code for, responsive at least in part to determining that at least one unexpected reboot occurred during the deployment of the modification, rolling back the system state of the computer according to the restore point; and

program code for, responsive at least in part to determining that no unexpected reboot occurred during the deployment of the modification, the roll-back manager indicating that the deployment of the modification was successful.

21. (Canceled)

22. (Currently Amended) The computer readable medium of claim 20 further comprising:

program code for auditing the computer and storing in non-revertible storage initial audit information ~~concerning~~ identifying at least one item from a group of items consisting of:

at least one currently executing system process;

at least one currently executing user process; and

at least one currently open listening port.

23. (Currently Amended) The computer readable medium of claim 22 further comprising:

program code for, responsive at least in part to determining that no unexpected ~~reboots~~ reboot occurred during the deployment of the modification:

re-auditing the computer and comparing re-audit information to the stored initial audit information; and

performing an appropriate action responsive to results of the comparison.

24. (Original) The computer readable medium of claim 23 further comprising:

program code for, responsive to the comparison revealing that at least one item from the initial audit is no longer present on the computer, rolling back the system state of the computer according to the restore point.

25. (Original) The computer readable medium of claim 23 further comprising:

program code for, responsive to the comparison revealing that all items from the initial audit are still present on the computer, deeming the computer stable.

26. (Previously Presented) A computer system for rolling back a system state after a modification failure, the computer system comprising:

a creation module, configured to create a restore point on a computer;

a storage module, configured to store a reboot indicator in non-revertible storage, the storage module being communicatively coupled to the creation module;

a monitoring module, configured to monitor the reboot indicator ~~to detect an unexpected reboot~~ during deployment of a modification, further configured to detect a reboot of the computer, further configured to determine based at least in part on the reboot indicator whether the reboot

was expected or whether the reboot was unexpected, the monitoring module being communicatively coupled to the storage module; and

a rollback module, configured to, responsive at least in part to input from the monitoring module indicating that at least one unexpected reboot occurred during the deployment of the modification, roll back the system state of the computer according to the restore point, ~~responsive to input from the monitoring module indicating that at least one unexpected reboot occurred during the deployment of the modification,~~ the rollback module further configured to, responsive at least in part to input from the monitoring module indicating that no unexpected reboot occurred during the deployment of the modification, indicate that the deployment of the modification was successful, the rollback module being communicatively coupled to monitoring module.

27. (Canceled)

28. (Currently Amended) The computer system of claim 26 further comprising:

an auditing module, configured to audit the computer, the auditing module being communicatively coupled to monitoring module and to the storage module; wherein

the storage module is further configured to store, in non-revertible storage, initial audit information ~~concerning~~ identifying at least one item from a group of items consisting of:

at least one currently executing system process;

at least one currently executing user process; and

at least one currently open listening port.

29. (Currently Amended) The computer system of claim 28 wherein:

the auditing module is further configured to re-audit the computer, responsive at least in part to input from the monitoring module indicating that no unexpected ~~reboots~~ reboot occurred during the deployment of the modification; the computer system further comprising

a comparison module, configured to compare re-audit information to the stored initial audit information, the comparison module being communicatively coupled to the auditing module and to the rollback module; wherein

the rollback module is further configured to perform an appropriate action responsive to input from the comparison module.

30. (Original) The computer system of claim 29 wherein:

the rollback module is further configured to roll back the system state of the computer according to the restore point, responsive to input from the comparison module indicating that at least one item from the initial audit is no longer present on the computer.

31. (Original) The computer system of claim 29 further comprising:

a stability deeming module, configured to deem the computer stable, responsive to input from the comparison module indicating that all items from the initial audit are still present on the computer, the stability deeming module being communicatively coupled to the comparison module.

32. (Currently Amended) A computer implemented method for auditing a computer system state, the method comprising the steps of:

a rollback manager auditing the computer and storing in non-revertible storage information ~~concerning~~ identifying at least one item from a group of items consisting of:

at least one currently executing system process;

at least one currently executing user process; and

at least one currently open listening port.

33. (New) The method of claim 1 wherein the reboot indicator comprises at least one attribute from a group of attributes consisting of:

an indication of whether a reboot is expected; and

an indication of whether a modification is being deployed.